# The Grass Encyclopaedia

**The aromatic encyclopedia for**
**flavourists, Botanists, Chemists,**
**Cosmetics experts, Perfumers, Phyto-aromatherapists,**
**And everyone keen on the subject.**

## User manual

***Version 1.0c - August 2002***

# Table of contents

**THE GRASS ENCYCLOPAEDIA**

The Grass encyclopaedia is an professional encyclopedia on natural products, their chemical components and their applications in aromatherapy, chemistry , cosmetics, perfumes, nutraceutic and phyto-aromatherapy.

**PROCESSINGS**

## A. REASERCH PROCESSINGS (exclusive / inclusive)

- Botanical name- common name - synonyms
- Type of extract – used part
- Botanical family - chemical family - savour family - odour family
- Physico-chemical properties
- Indication / Contraindication (by trades)
- Active product – chemical component
- Registration N° (CAS, EINECS, FEMA, FDA, CE, RIFM, IFRA)
- Extracts containing these molecules
- Countries – producing area
- Extract's activity
- …

## B. SPECIFIC PROCESSINGS

- Legislation's service aid
- Knowledge on plant's extracts
- Bibliography
- Aid to create security data and technical forms (flash point, phrases R and phrases S, Symbols of danger)
- Security data and technical forms printing
- Typical case by trade (recipe, formula)
- Tip and quiz of the day
- …

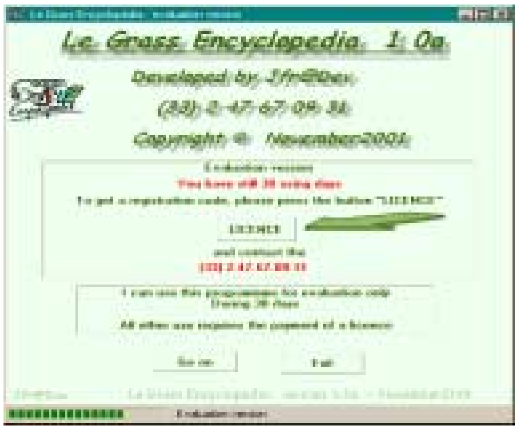
## THE GRASS ENCYCLOPEDIA INSTALLATION

To install The Grass Encyclopaedia 1.0, start the programme SETUP.EXE present at the CD root.
The set up is achieved in the asked directory (by default C:\Le Grass).
For updating, use the same computer, and the same directories; the updated files will be replaced by the installation.

### THE LICENCE

The licence is created in the first set up. The versions 1.0a, 1.0b, 1.0c et 1.0d use the same licence.

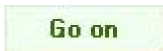
The set up creates an evaluation version of **The Grass Encyclopaedia 1.0**. →




**It is a complete version with all the functionalities of Grass Encyclopaedia**, only, the use is limited to 30 days..

When the programme is running, an evaluation window appears, it indicates you the number of remaining days to test the programme :

**Test the evaluation version** →




**Give up the test** →



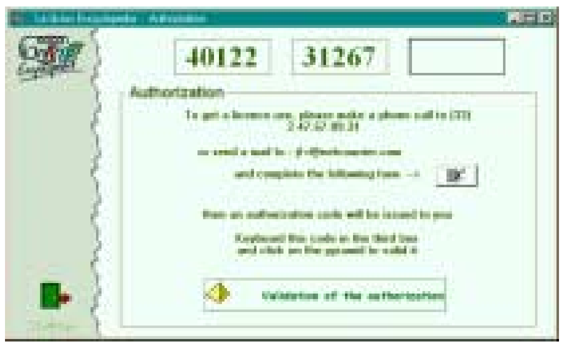

**Licence registration**

The screen giving the authorization is displayed with the button "LICENCE" of the evaluation screen or the screen "About the menu" of the sub-menu "?" from **The Grass menu** →



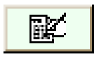

After payment of the licence, and to get an unlimited use, you must record your licence number. For that, you must to communicate to us the two codes which appear on this screen. We will pass on to you, the third code, to keyboard in the small window situated at the top and on the right of the screen.You must valid your keyboarding with the button:

 "**Validation authorization n°**". →

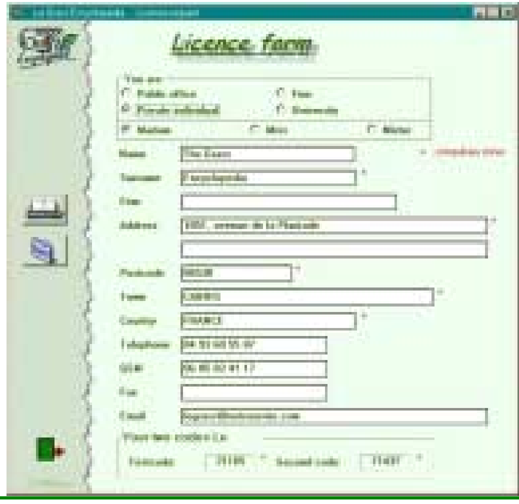



After acceptance and validation of the licence, the programme is not limited any more , and the screens of evaluation disappear.

**Ask for your license n°**



Follow the instructions in filling the next form, and send this document :



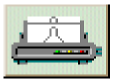

- Either by post to :

  **Acphytaroma S.a.r.l**
  "**The Grass Encyclopaedia 1.0**"
  1051, avenue de la Plantade
  06530 Cabris
  France

- Or by e-mail : claudemonin@online.fr

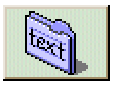
  or to : acphytaroma@online.fr,

**Printing the form**



**Create a txt file**

Click on the button



and do a copy-paste of the file "FleGrass.txt" in the installation directory of **The Grass Encyclopaedia 1.0**.

## Note :

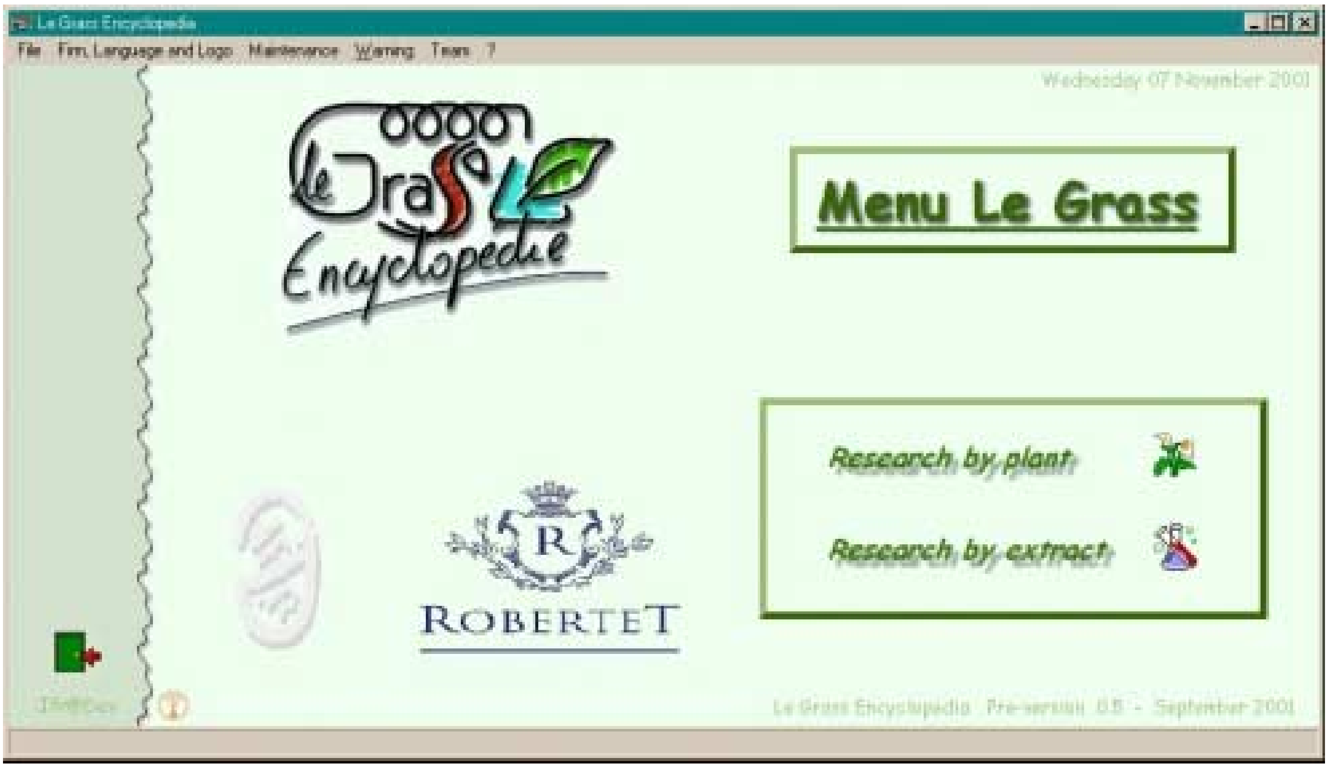
After payment, the use of this software is limited to only one personal computer or to one working station, which is not used as an information retrieval centre. An adding payment is needed for a use on another computer or on another working station..

Only one software copy can be made in order to do a saving or a filing. The software can be transferred only in one hard disk.

All use of this software infringing principles above mentioned is not allowed within the scope of the licence.

## THE GRASS MENU

The main menu permits to do researches by plants ( botanical information) and by extracts ( technical information):



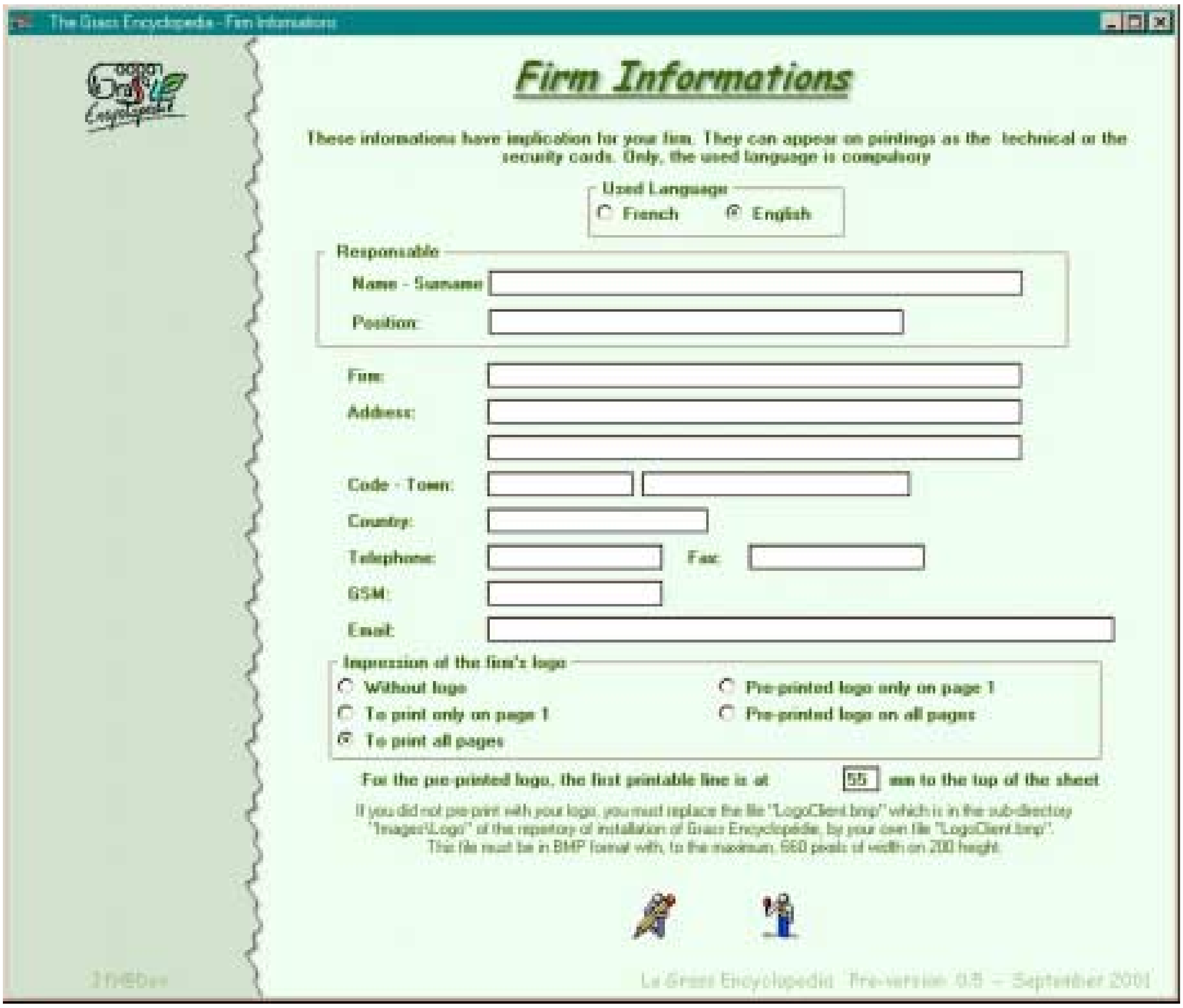

The menu bar gives access to the following functions

| Menu | Sous-menu | Fonction |
|---|---|---|
| File | Configure the printer | Configuration of your printer |
| | Quit | To leave **The Grass Encyclopaedia** |
| Company, Language, Logo | | • Information on your company for printing of the technical cards and security data forms<br>• Language used for the program : french or english<br>• Your logo for printing |
| Maintenance | Reindex and files saving | Re-indexation and files saving |
| Warning | | To warn for medical use |
| The team | | Introduction of The Grass Encyclopaedia team |
| ? | The tips | Tips of the day |
| | The Grass team | Introduction of **The Grass Encyclopaedia** team |
| | About | **The Grass Encyclopaedia** |
| | IDDN authentification | Computer authentification N° |

## COMPANY, LANGUAGE, LOGO

This screen groups three functions.
It allows :

1) The keyboarding concerning your company, in order to print the security data cards and the technical cards.
2) The choice of the used language for the programme.
3) The choice for printing the logo of your company.
   a) without logo
   b) with logo as bmp file. This file must be called **"Logo Client. bmp",** proportionate to a maximum 660 pixels wide and 200 pixels high and must be put in the sub-directory **"Pictures\Logo"** of your installation directory,
      - To print only on top of the first page,
      - To print on top of all pages.
   c) On pre-printed paper. The distance of the first line to be printed must be given in mm regarding the top of the page,
      - Only the first is headed pre-printed,
      - All pages are headed pre-printed.



## DISCLAIMER SCREEN FOR THERAPEUTIC USES

This screen is a warning for medicinal uses of extracts and molecules. As for MSDS data sheets, indications are provided on the best of actual knowledge. The reader's attention is focused on the risks for using extracts and molecules as self medicine or other uses without Doctor or Specialist advices.



THE TEAM OF THE GRASS ENCYCLOPAEDIA

**Phyto-aromatherapy :**

**Dr Francis Hadji-Minaglou**
Pharmacist practitioner - Expert in phyto aromatherapy – Grasse

**Chemistry, extracts, EO :**

**Professor Jean Garnero**
Scientist, Member of Scientific commitees
ROBERTET – Grasse

**Chemistry, botany, cultivation, distillation, extraction:**

**M. Claude Monin**
Chemical engineer
Development Projects Leader
ROBERTET - Grasse
claude.monin@robertet.fr]

**Flavours, nutraceutics, toxicology, legislation:**

**Dr Serge RICCI**
Senior flavourist and toxicologist
Director of flavour legislation department
ROBERTET – Grasse

**Parfumery :**

**M. Francis CAMAIL**
Perfumeur
Director of creation
ROBERTET – Grasse

**Cosmetics :**

**M. Raymond KERVERDO**
Cosmetic formulation
ROBERTET – Grasse

**Legislation Perfumes and Cosmetics:**

**M. Philippe Racine**
Engineer
Director of application cosmetic department
ROBERTET - Grasse

**Coordinator, juridical, translation:**

**Professor Pierre Ros**
Chemical engineer
Professor ENSC Montpellier

**Economic statistics, producing Countries:**

**M. Bruno De-CERF**
General manager
CAVALLIER – Grasse

**Drawing, logos:**

**Mlle Isabelle Moroz**
Designer-writer in direct marketing
Joué-lès-Tours

**Computer, software:**

**M. Jean-François Rousseau**
Director of development
Jfr@Dev - Joué-lès-Tours

**Supervisory committee:**

**ROBERTET - Grasse**

## IDDN AUTHENTIFICATION

This programme was registered to APP, agency for the protection of programmes (http://app.legalis.net/), by the creation of an international number at InterDeposit (http://www.iddn.org/)




## INTERNATIONAL PROTECTION OF AUTHORS' RIGHTS AND NEIGHBORING RIGHTS

InterDeposit, an international federation for data-processing and information technologies, set up in Geneva on 10 January 1994, is made up of the various organisations concerned by the protection of intellectual property rights over digital works.

InterDeposit has put together an international system for the identification of works - IDDN (InterDeposit Digital Number) –offering rightholders the possibility of protecting and exercising their rights over any type of digital creation (music, sound, photographs, moving and still pictures, logos, texts, software, data bases, web sites, etc) regardless of format.

The IDDN system is compatible with other standards and can be handled either directly or via the intermediary of third parties (publishers, literary agents, collective management companies, etc ).

In addition, InterDeposit has entrusted one of its founder members, the Agency for the Protection of Programs Paris, with the task of carrying out checks for any unlawful use or reproduction on the Internet.

### 1. Principle of protection by the IDDN system

After the on-line referencing of a work, the rightholder obtains an IDDN certificate to be attached to the work, containing in particular the international IDDN number, the title of the work, the special conditions of use and exploitation and any original "sources" of creation. Chain uses of digital works may then be made in compliance with intellectual property rights, thanks to the identification at each stage of the rightholders, their respective creative contributions and the conditions they have stipulated for the use of their work. The international IDDN number is designed to accompany the work in all its reproductions and representations, and the rightholder can thus always be identified.

It should be noted that article 12 of the international copyright treaty, adopted on 20 December 1996 at Geneva by the Diplomatic Conference held by the World Intellectual Property Organization (WIPO), provides for the application of legal remedies against any person who removes or alters any electronic rights management information and identification systems. This provision gives full force of law to the IDDN system.

### 2. Detection of the unlawful use or exploitation of works - settlement of disputes

Thanks to automatic search systems and the intervention of its authorised agents, the APP ensures that infringement reports are drawn up to provide material proof of any offence. This judicial evidence allows conventional court proceedings to be initiated if the infringers refuse the on-line WIPO arbitration that is normally chosen for the settlement of disputes, in accordance with the IDDN Charter whose enforcement is accepted by cybernauts when they consult an IDDN referenced work .

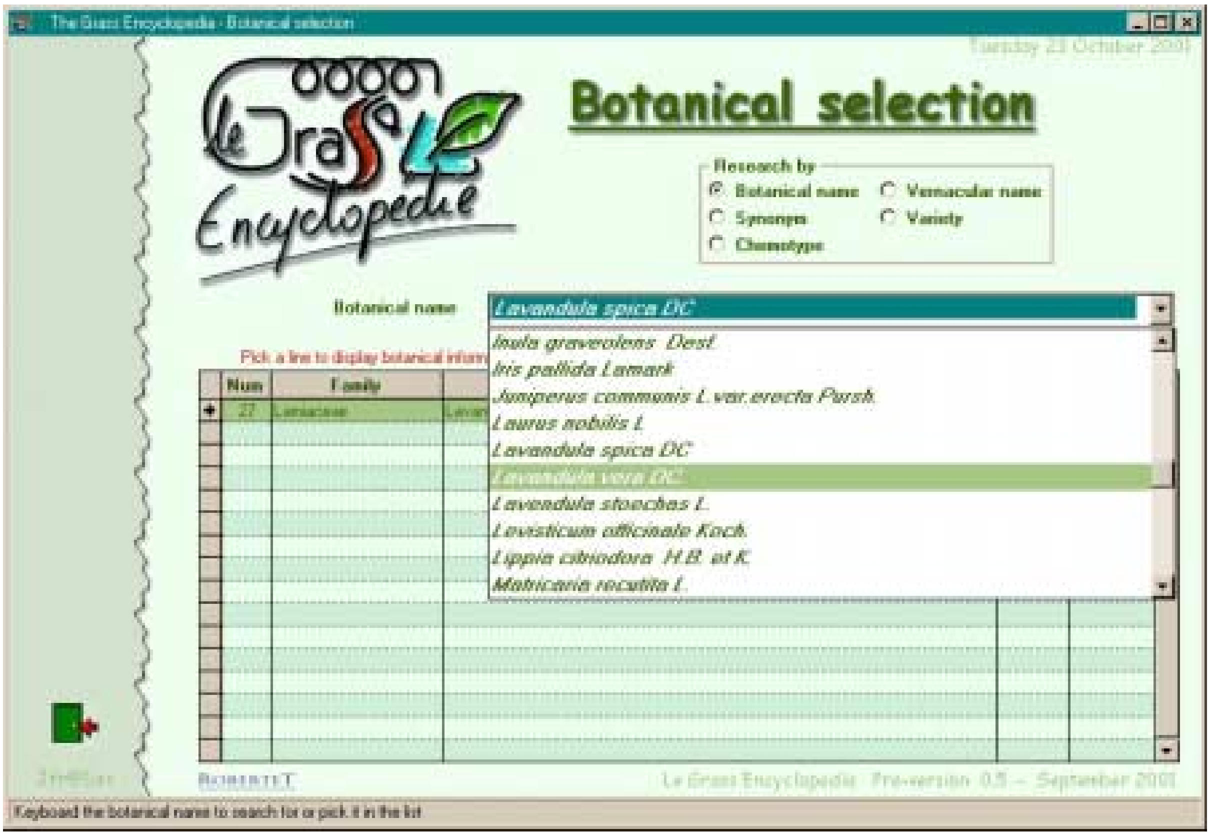



## BOTANICAL RESEARCH

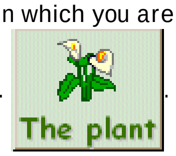
You can make a botanical research by : 5 different types :

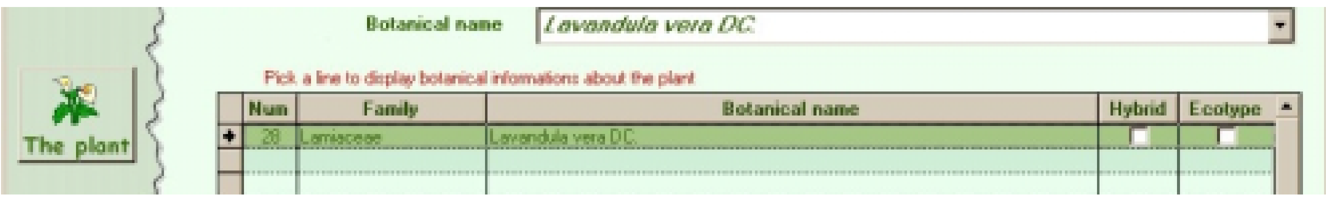
- Botanical name (latin name),
- Synonym,
- Chemotype,
- Vernacular name or common name in several languages,
- Variety.

Just choose the type of research, then to pick the name in the proposed combo list. This combo list is function of the type, chosen.




The system displays the selection, chosen in the table.

To display botanical information of the chosen plant, in which you are interested, you must select it and, either double-click on the line, or click on the button .  .




## BOTANICAL FORM : DESCRIPTION

The window "The plant" informs about the Latin name, the botanical name, the French name and the English name. This window is always present.




The button 

gives three kinds of information:

1) Description on :
   - the plant,
   - the varieties
   - the chemotypes.
2) History.
3) Cultivation :
   - habitat, type of soil,
   - cultivation, propagation,
   - the production, yiels/ha ...,
   - period of flowering,
   - harvesting,
   - and phytosanitary protection.

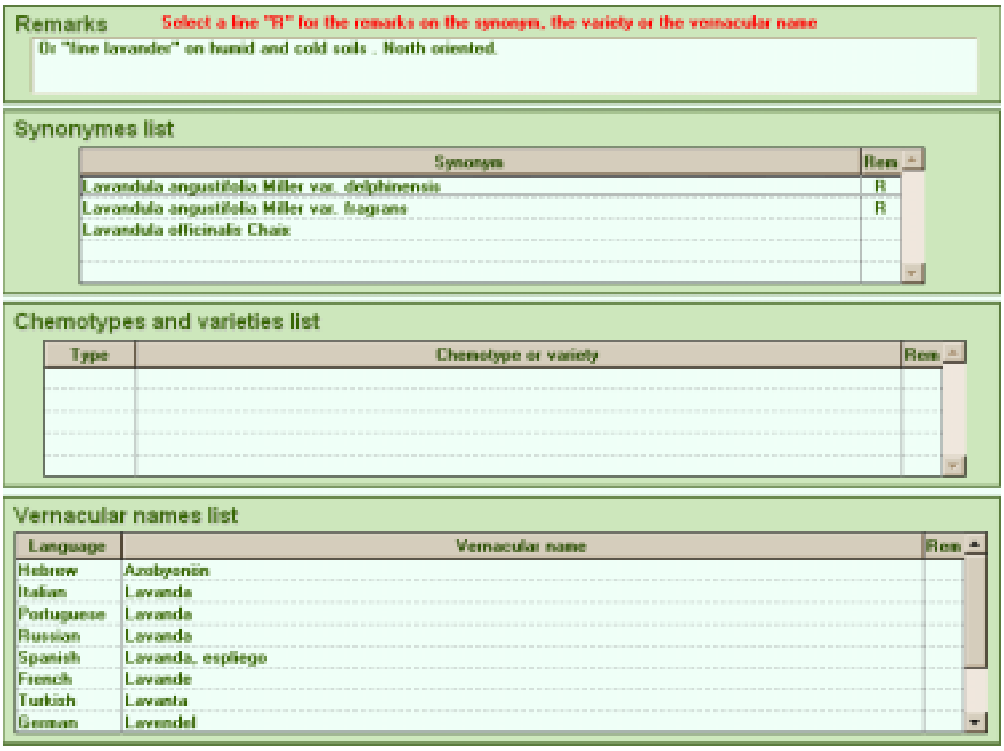
## BOTANICAL FORM: EXTRACTS OR MOLECULES

Here is the list of the extracts or molecules of the selected plant, which are processed in **The Grass Encyclopaedia 1.0b**. You can read information about the extract or the molecule, in double-clicking on the selected line.




## BOTANICAL FORM : OTHER NAMES

On this screen you can find three lists:
1) The Latin synonyms.
2) The chemotypes and the varieties.
4) The common name in several nationalities.




The "R" in the column "'Rem" of the lists, indicates a note which is displayed in the window "Remarks" if you select the line containing a note "R".

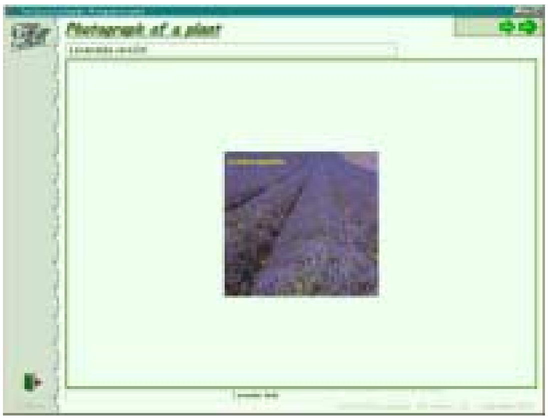
## Bibliography — BOTANICAL FORM : BIBLIOGRAPHY

On this screen you will find a list, not exhaustive, of bibliography and articles concerning the plant.




## Photograph — BOTANICAL FORM: THE PICTURES

This screen displays the picture(s) of the plant, its culture or its production.

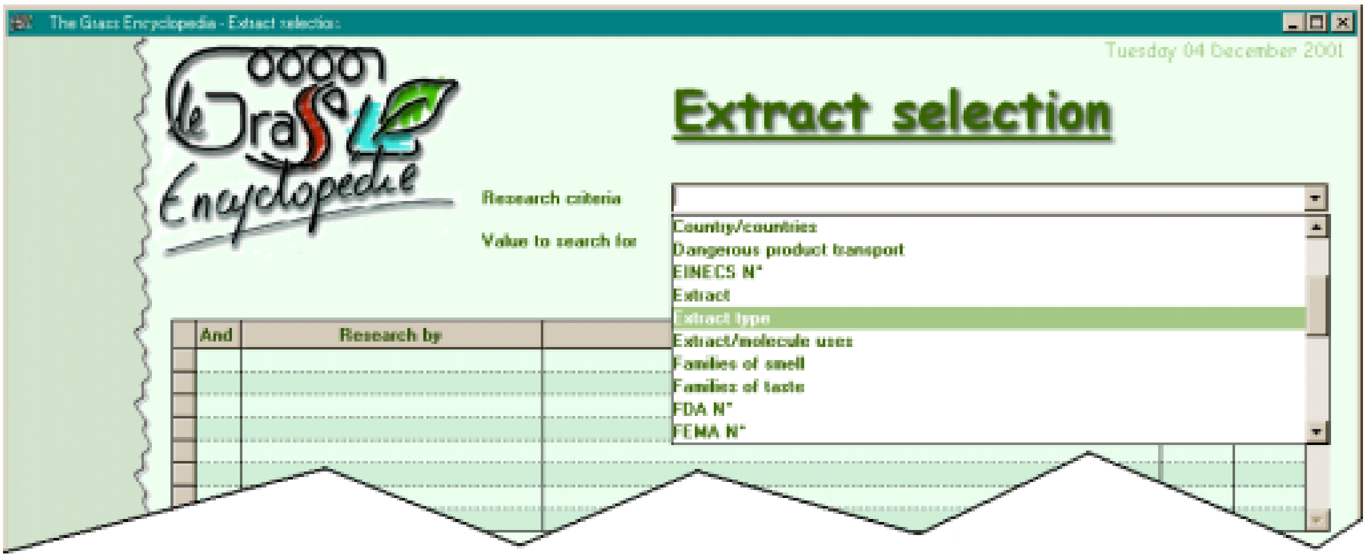


## Research by extract — EXTRACTS OR MOLECULES SEARCH

Criteria's research are the following :

- Bibliography
- physico-chemical data
- Presence of the molecule
- Extract
- Chemical family
- Flavour family
- Odour family
- Recipe, formula
- Class of molecule
- Indication / Contra-indication
- Molecule
- RIFM monograph
- CAS N°
- CE N°
- EINECS N°
- FDA N°
- FEMA N°
- Perfume note
- Used parts
- Country of origin
- Hazards phrases
- Caution before use
- Property
- Hazardous products transportation
- Apparatus type
- Announcement type
- Hazard type
- Extract type
- Product type
- Use by extract/molecule

Just you choose a research's criteria, then you pick a value to research, regarding this criteria in the proposed combo list.



The screen will display extracts or molecules selected by the search criteria



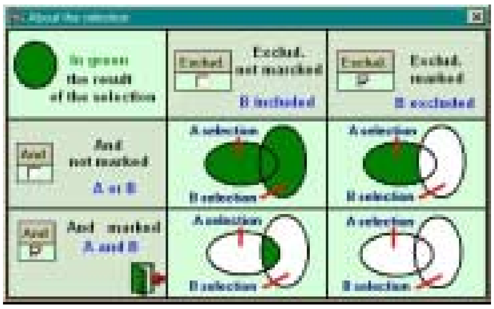

To see information about the selected extract or molecule, you must double click on his line, or click on the button :



.

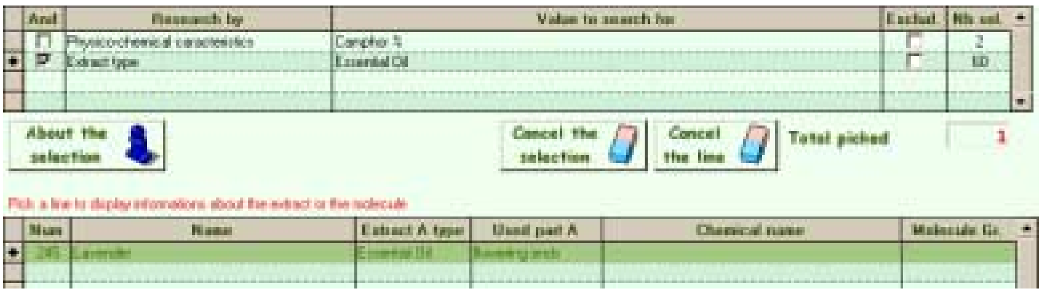



**THE SELECTION : INCLUSION / EXCLUSION**



For using the 'AND' selection, you must tick 

, otherwise, selection is 'OR'






cancel the selected ligne


cancel the selection

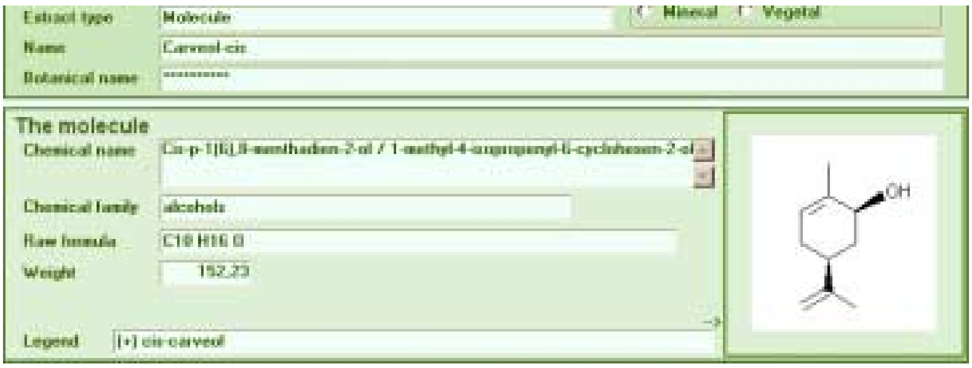



## EXTRACT / MOLECULE FORM: DESCRIPTION

On this screen you will find general information about the extract or the molecule : codification, chromatography, spectrography and various information.




The window molecule, only gives information about molecules.

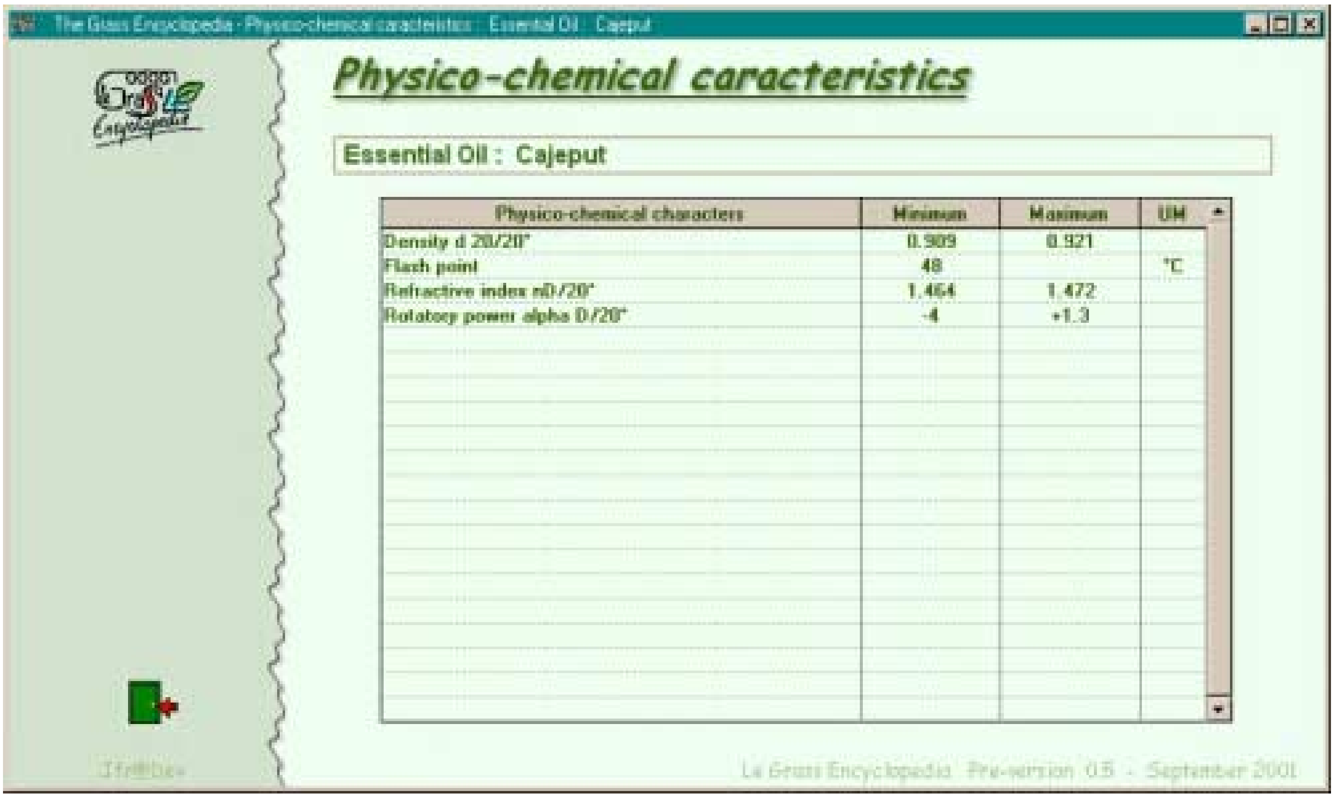


**Botanical** **EXTRACT / MOLECULE FORM: BOTANY**

This button allows displaying botanical information on the plant, from which the extract or the molecule is obtained (see the paragraphs in the botanical form).

**Physico-chemical** **EXTRACT / MOLECULE FORM: PHYSICO-CHEMICAL CHARACTERISTICS**

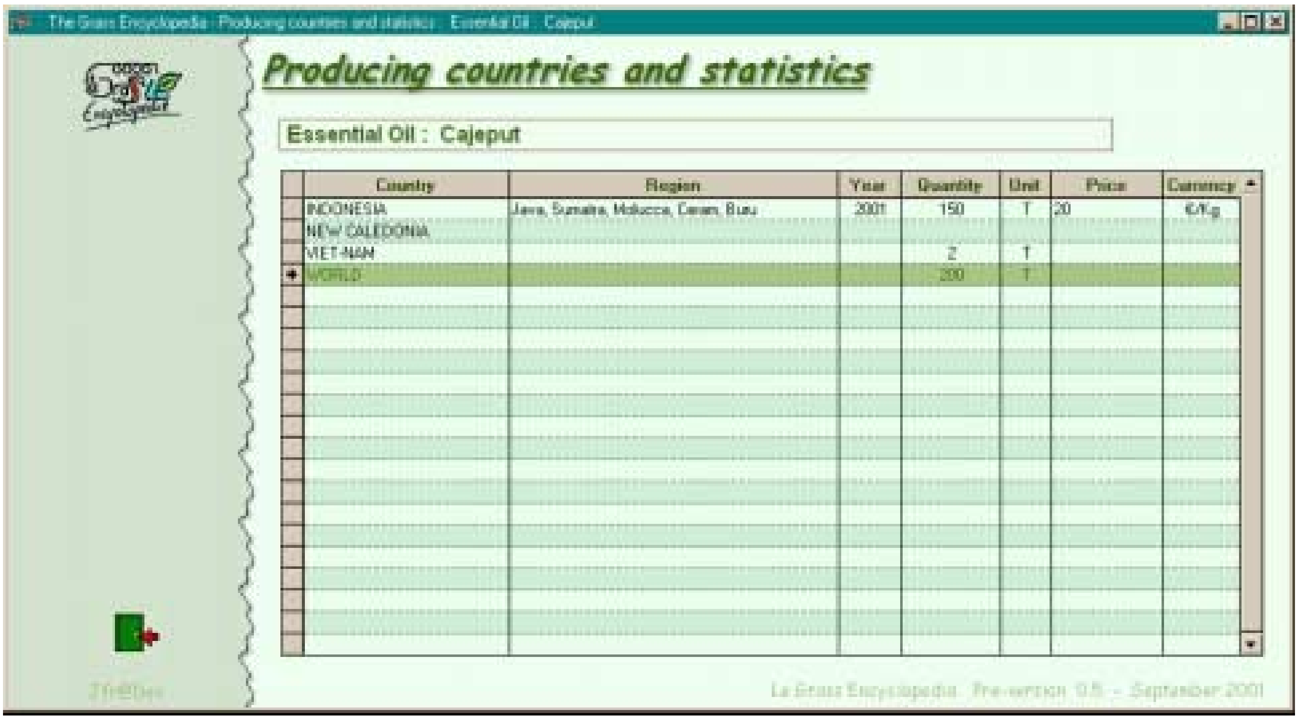
On this screen you will find the physico-chemical characteristics of extract / molecule.






## EXTRACT / MOLECULE FORM: PRODUCING COUNTRIES AND STATISTICS

On this screen you will find the statistics of production by countries of extract / molecule.

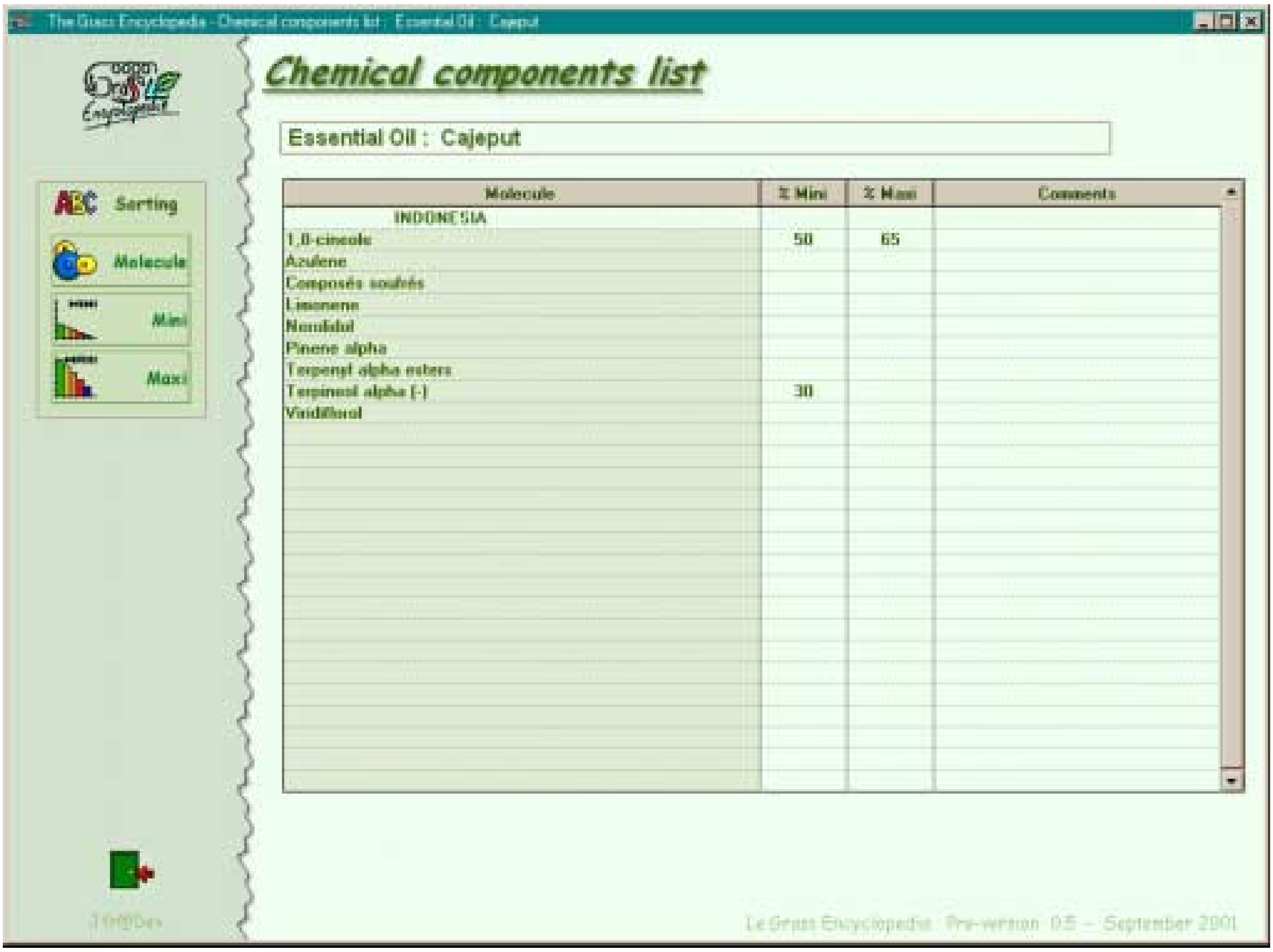


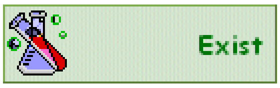



## EXTRACT FORM: CHEMICAL COMPONENTS

This button only appears for extracts.

On this screen you will find the main components of the extracts, according to the producing countries. It is possible to select this array of data, by molecule name, by values in % minimum or % maximum of the molecules contained in the extract.

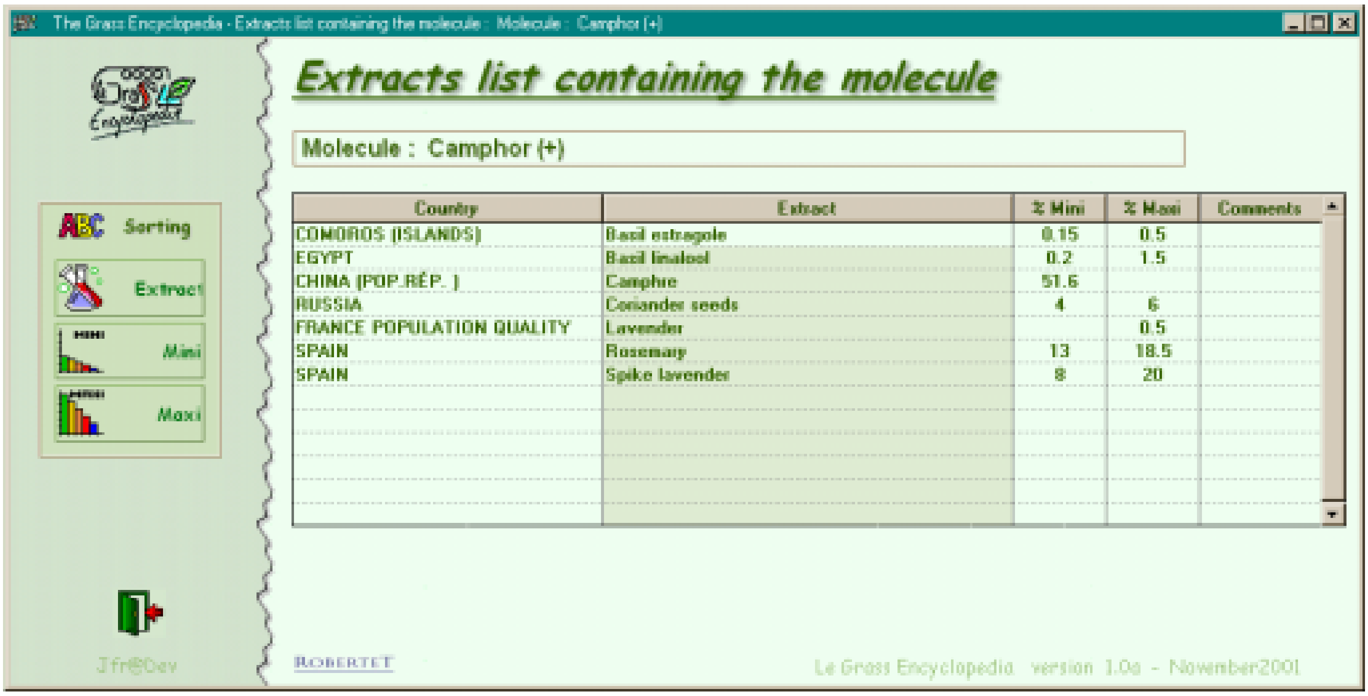





## MOLECULE FORM : LIST OF EXTRACTS CONTAINING THE MOLECULE

This button only appears for molecules

This screen displays the list of extracts, according to the producing countries production, which contain this molecule and in what proportion. It is possible to select this array of data by extract name, by values in % minimum or % maximum of the molecules contained in the extract.

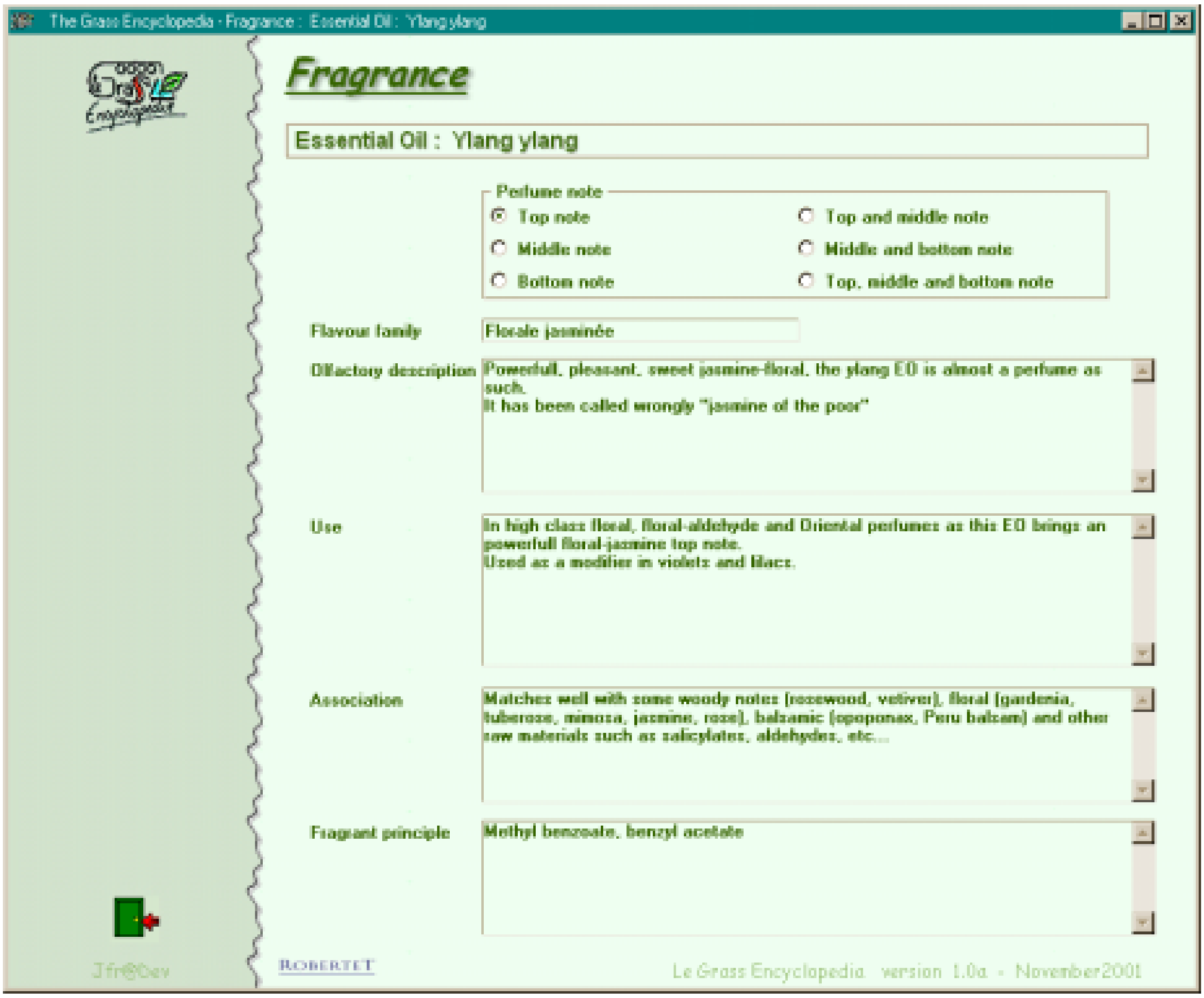


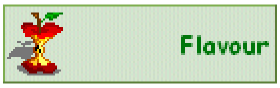

| Country | Extract | % Mini | % Maxi | Comments |
|---|---|---|---|---|
| COMOROS (ISLANDS) | Basil estragole | 0.15 | 0.5 | |
| EGYPT | Basil linalool | 0.2 | 1.5 | |
| CHINA (POP.RÉP. ) | Camphre | 51.6 | | |
| RUSSIA | Coriander seeds | 4 | 6 | |
| FRANCE POPULATION QUALITY | Lavender | | 0.5 | |
| SPAIN | Rosemary | 13 | 18.5 | |
| SPAIN | Spike lavender | 8 | 20 | |

Fragrance **EXTRACT / MOLECULE FORM: ODOUR**

On this screen you will find information on odour extract / molecule :

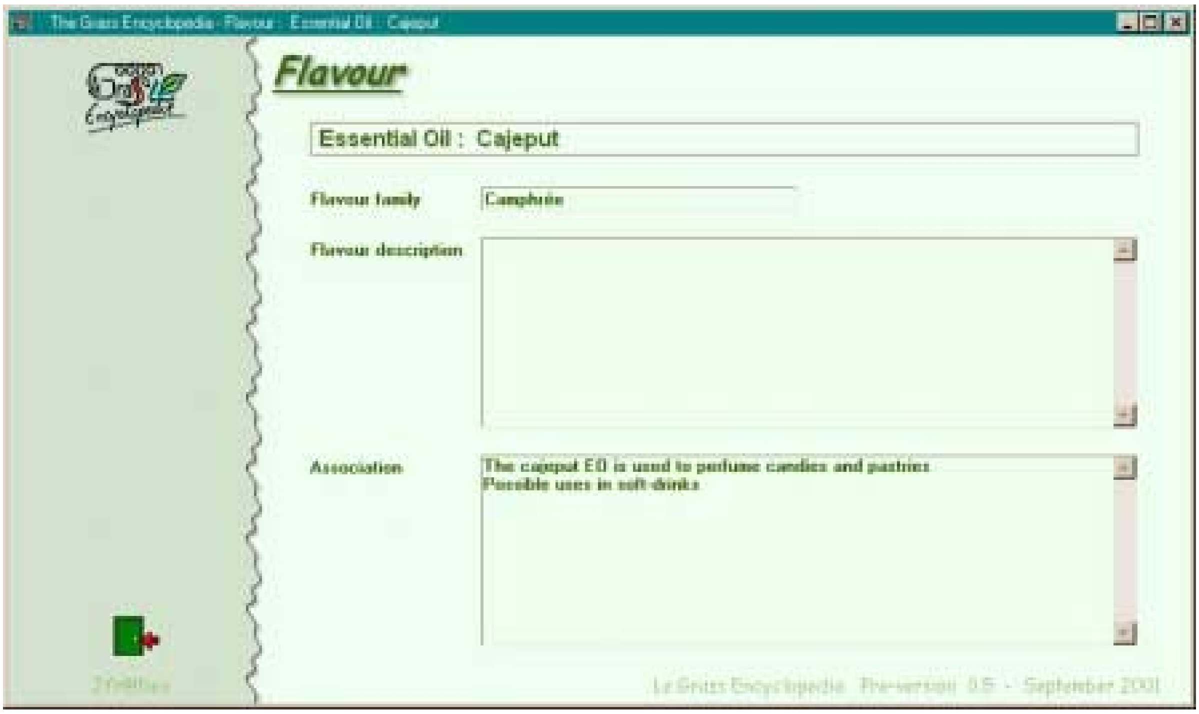
- The odour family,
- The olfactory description
- The use
- The possible associations
- The main molecules responsible for the odour





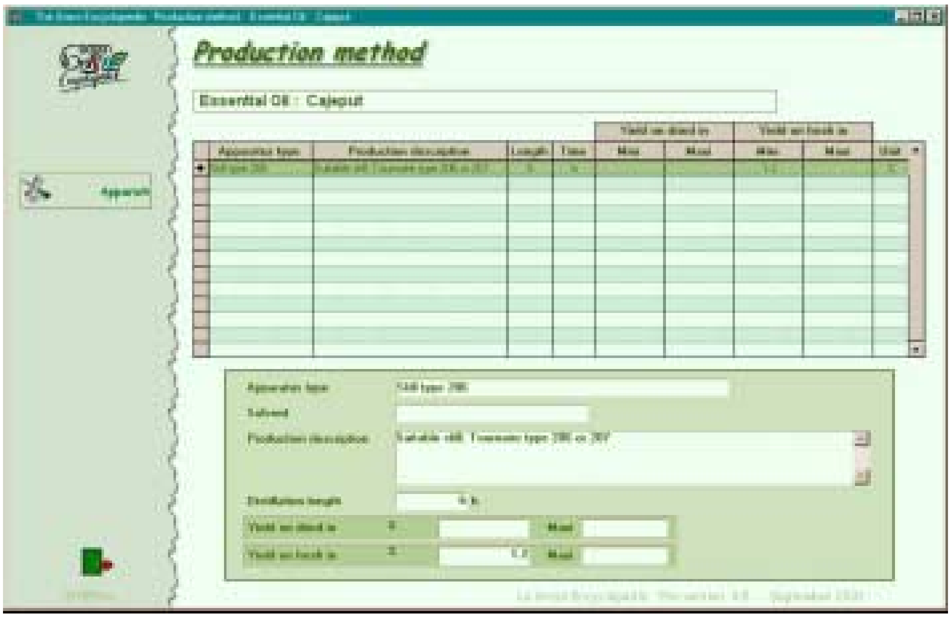

**EXTRACT / MOLECULE FORM: FLAVOUR**

- On this screen you will find information on the flavour of extract / molecule :
- The flavour family
- The description
- The traditional and industrial uses



## Production EXTRACT / MOLECULE FORM: MANUFACTURING PROCESS

- On this screen you will find manufacturing processes of extract / molecule :
- The apparatus type,
- The used solvant,
- The process description,
- The distillation length,
- The yield on fresh and on dried raw material in % mini and % maxi.




The button Apparatus allows to know the manufacturer of this apparatus type, as well a draw or a picture of the equipment.



## Property EXTRACT / MOLECULE FORM: PROPERTIES

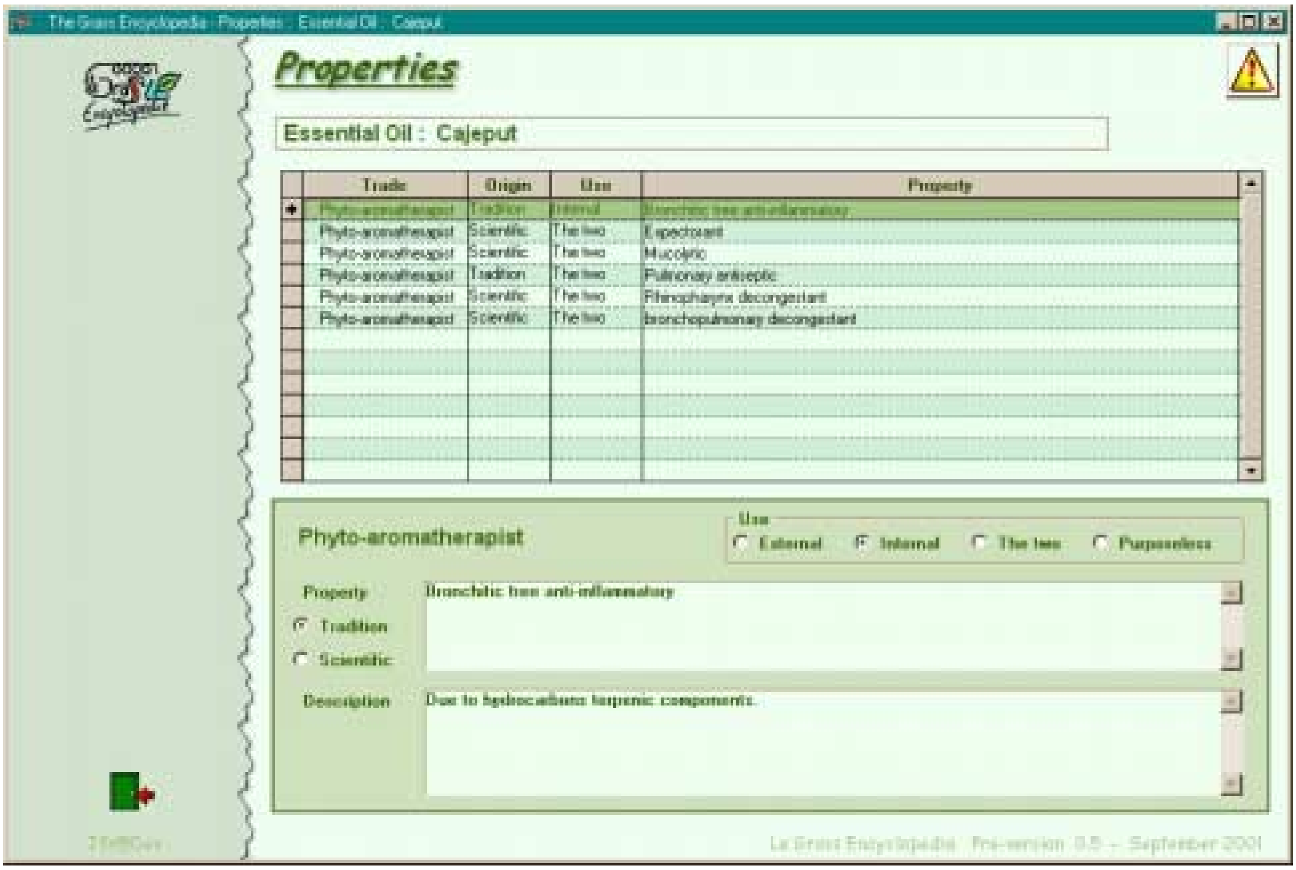
On this screen you will find the properties of extract / molecule according to the different trades :

- The flavour expert,
- The botanist,
- The chemist,
- The cosmetics expert,
- The nutraceutics expert,
- The perfumer,
- The phytotherapy expert.

All trades cannot be present.

Information on the properties are the following :

- Use by internal application, by external application, by internal and by external application, in vitro, in vivo or in vitro and in vivo,
- The description and the cause of the property,
- If the property comes from the tradition, or if it has been scientifically proved.






## EXTRACT / MOLECULE FORM: INDICATIONS / CONTRAINDICATIONS

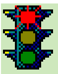
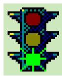
On this screen you will find indication and / or contraindication of extract / molecule according to the different trades :

- The flavour expert,
- The botanist
- The chemist
- The cosmetics expert
- The nutraceutics expert
- The perfumer
- The phyto-aromatherapy expert

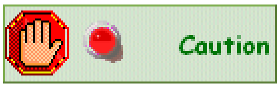
All trades cannot be present

Information on indications / contraindications are the following :

- Use by internal application, by external application, by internal and by external application, in vitro, in vivo or in vitro and in vivo,
- Contraindication with a danger signal,
- The subject for which indication or contraindication exists,
- The description or the cause of this indication or contraindication.

A warning red light  indicates if, for this extract / molecule, there is a contraindication and a red danger signal  will flash for this contraindication, otherwise the danger signal is green .





## EXTRACT / MOLECULE FORM: CAUTION BEFORE USE

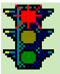
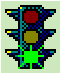
On this screen you will find caution before use of extract / molecule according to the different trades :

- The flavour expert
- The botanist
- The chemist
- The cosmetics expert
- The nutraceutics expert
- The perfumer
- The phyto-aromatherapy expert

All trades cannot be present.

Information on caution before use are the following:

- Use by internal application, by external application, by internal and by external application, in vitro, in vivo or in vitro and in vivo,
- The description or the cause of the property,
- If the property comes from the tradition, or if it has been scientifically proved

A warning red light  indicates if, for this extract / molecule, there is a contraindication and a red danger signal  will flash for this contraindication, otherwise the danger signal is green .



Use/card

## EXTRACT / MOLECULE FORM: APPLICATIONS AND RECIPE CARDS

On this screen you will find applications and some examples: the recipe cards of extract / molecule
According to the different trades :

- The flavour expert
- The botanist
- The chemist
- The cosmetics expert
- The nutraceutics expert
- The perfumer
- The phyto-aromatherapy expert

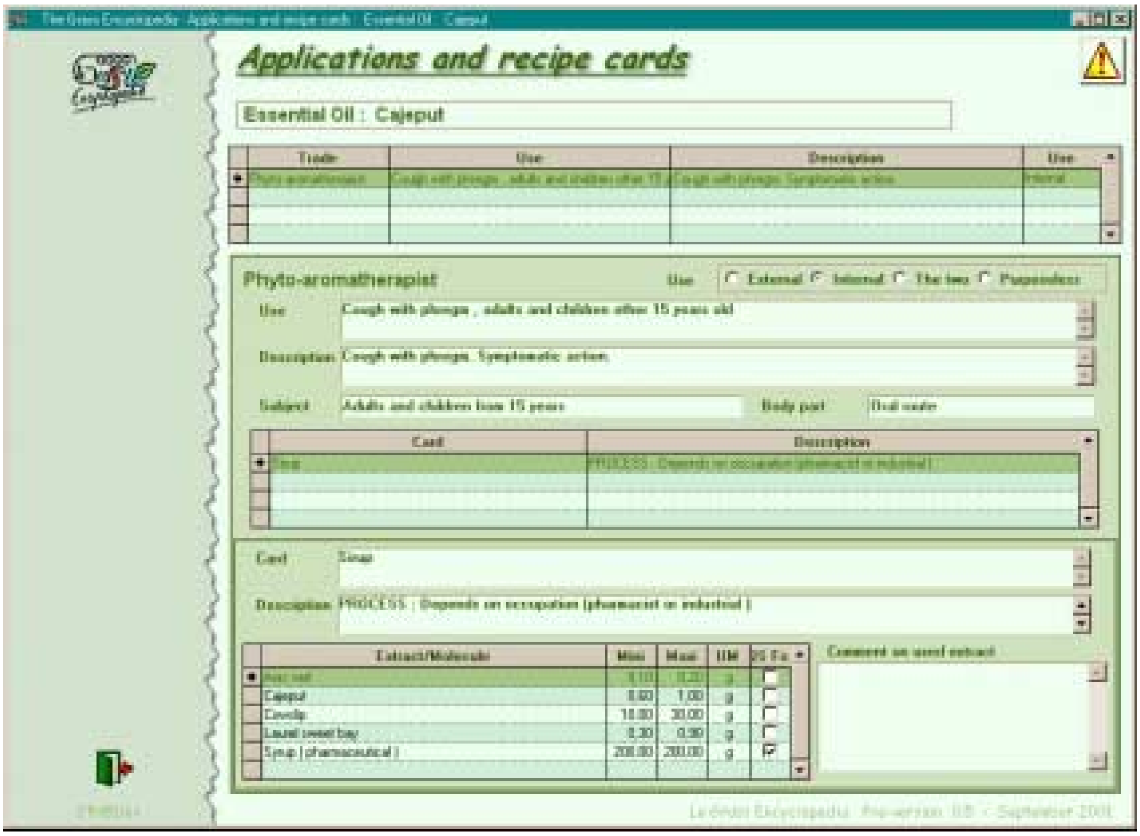
All trades cannot be present.

Information on the application are the following :

- Use by internal application, by external application, by internal and by external application, in vitro, in vivo or in vitro and in vivo,
- The description of the product,
- The person being able to use this product,
- The body's part being able to receive this product,

Information on the recipe part are the following:

- The property of this preparation,
- The description and its operating conditions
- The list of the extracts going in this card, and the mini-maxi quantities, with possible notes on the used extracts.



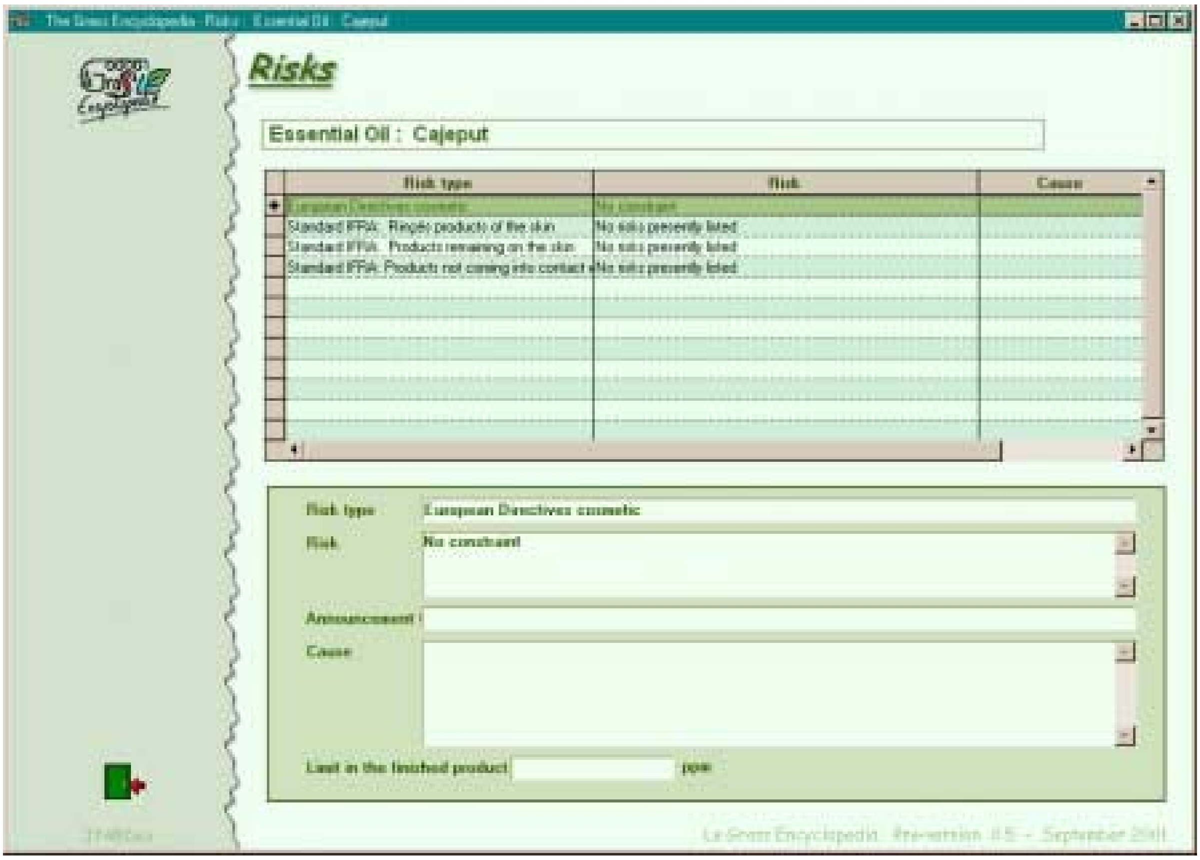
Risks

## EXTRACT / MOLECULE FORM: HAZARDS

On this screen you will find the list of the types of risks, as well the risks due to the use of extract / molecule :

Information on risks are the following:

- The type of risk, (European directives, IFRA, etc.)
- The risk
- The type of announcement
- The cause of the risk
- The limit to use in the final product in ppm.





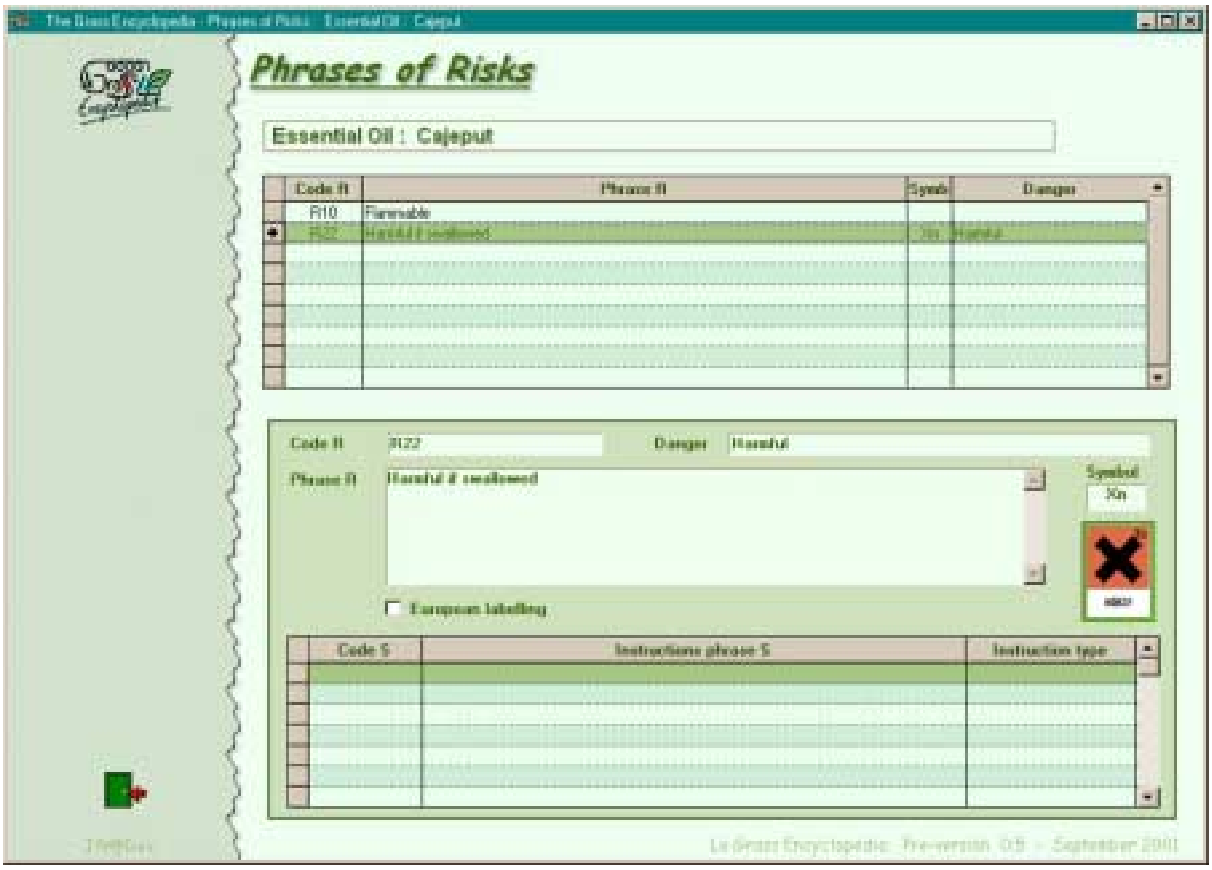

## EXTRACT / MOLECULE FORM: PHRASES R AND PHRASES S

On this screen you will find the phrases of risk R and the phrases of security S of extract / molecule. Information on the phrase R are the following:

- The code 'R..',
- the danger,
- the R phrase,
- the symbol and its code.

Information on the phrase S are the following :

- the code 'S..',
- the phrase S
- The type of instruction, optional, recommended, compulsory.






**EXTRACT / MOLECULE FORM: MATERIAL SAFETY DATA SHEET**

On this screen you will find the compulsory information of the security data form which must go with the extract and the molecule .

You can find the 16 items of the form:

1. The identification of the product,
2. The composition and information on the components, with its or their CAS n° and CE n°,
3. The identification of dangers
4. the first aids.

The button 

allows to get the following points:

5. The measures to fight against fire,
6. The measures to take in case of accidental dispersion,
7. The handling and the storage of the product,
8. The expository control and the individual protection,
9. The physical and chemical properties,
10. The stability and the reactivity,
11. The toxicological information,
12. The ecological information,
13. The destruction,
14. the transport,
15. The European regulation information, the symbol, The phrases R and the phrases S, associate,
16. The information of warning.



The button 

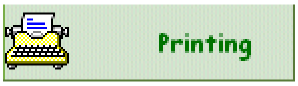
allows to go to the technical sheet, of extract / molecule.

The button 

allows to create your own suppliers, the code of the product and its address.

These information appear on the security data form. If you are the producer of this product you Can put your chosen code and the address of the production department.




The button 

allows to print your own security data form, with the information of your supplier or the information of your products.

The logo of your company can appear on your security data form (see the paragraph **Company, Language, Logo** on the menu's bar of the screen **Menu Le Grass**).




## EXTRACT / MOLECULE FORM: TECHNICAL SHEET

On this screen you will find the compulsory information of the technical form , which must go with the extract or the molecule .

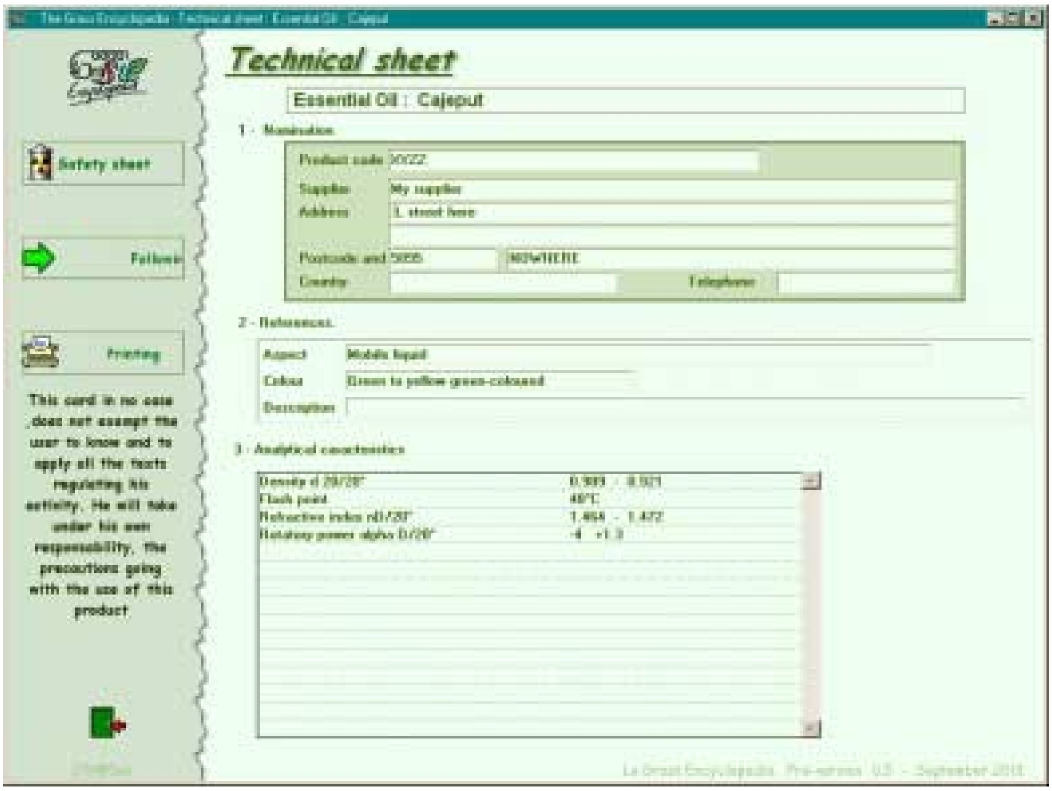
You can find the 7 items of the form :

1. The designation of the product,
2. The references,
3. The analytical characteristics

The button 

allows to obtain the following points:

4. The general and regulation information: CAS n°, CE n°, EINEC n°, FMA n° and FDA n°
5. The storage conditions,
6. The conservation length,
7. the warning information.




The button 

allows to go to the security data form.

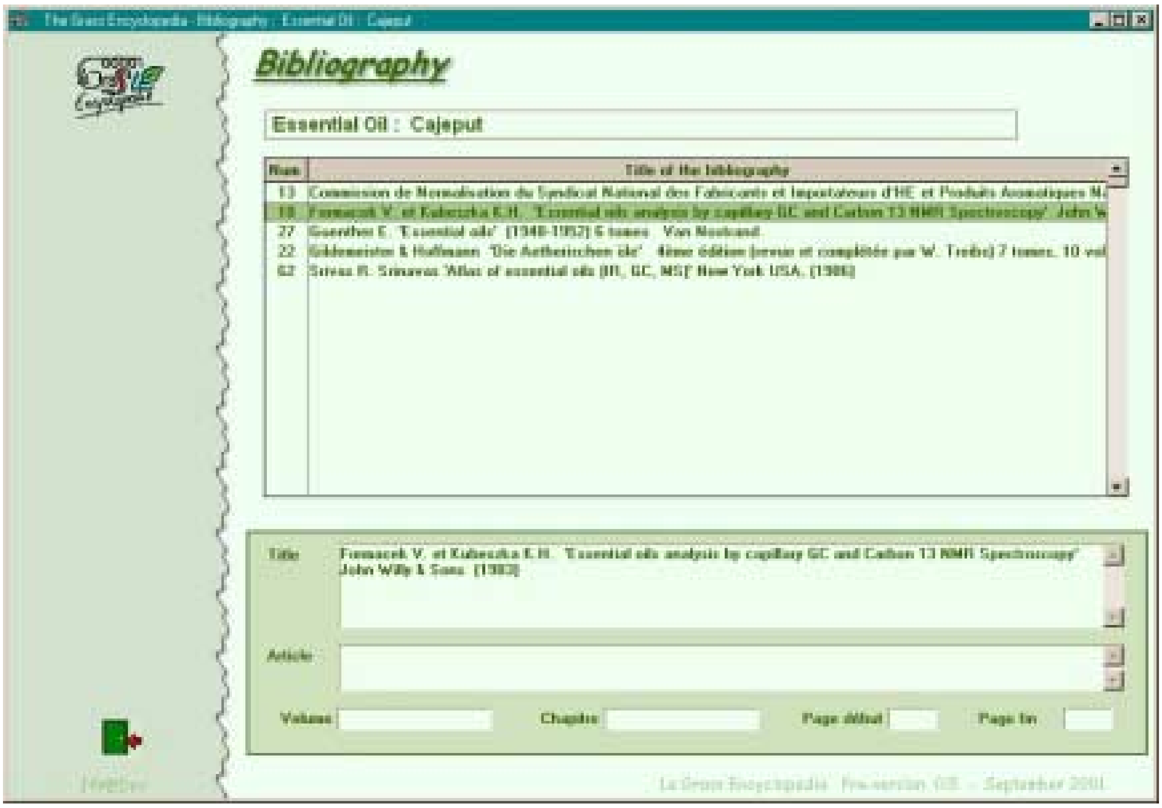
The button 

allows to print your own technical form, with information of your supplier, or information of your products.

The logo of your company, can appear on your own technical form (see the paragraph **Company, Language, Logo** on the menu's bar of the screen **Menu The Grass**).

## EXTRACT / MOLECULE FORM: BIBLIOGRAPHY

On this screen you will find a list, non exhaustive, bibliographies and articles concerning extract / molecule.



**THE LISTS**

## A. Licence request

## B. Material safety data sheet printing

**Le Grass Encyclopédie**

**The Grass Encyclopedia**

# MATERIAL SAFETY DATA SHEET

Date : 11/07/2001 Page : 1

**1 - Identification of the product.**

| | |
|---|---|
| Name of the product | Cajeput Essential Oil |
| Supplier | My supplier |
| Address | 3, street here - 5895 NOWHERE |
| Telephone | |

**2 - Composition / Informations about the components.**

Essential Oil obtained by distillation with the water vapor of the Freshky pruned small branches of Melaleuca leucadendron L.

CAS N° 85480-37-1 (8008-98-8)

**3 - Identification of dangers.**

Flammable
Harmful if swallowed

**4 - First help.**

| | |
|---|---|
| Contact with the skin | Take off the contaminated clothes. Wash the skin with a lot of water. Consult a doctor if irritation continues. |
| Contact with eyes | Supply eyes with a great quantity of water during at least ten minutes. Consult a doctor if irritation continues |
| Ingestion | Rince the mouth with water and consult immediatly a doctor |

**5 - Measures against fire.**

| | |
|---|---|
| Fight means against fire | Dry ice ($CO_2$) or powder extinguishers |
| Extraction means to be applied | Foam or halogen extinguishers |
| Extinction means not recommended | Direct water jet. Water mist |

## C. Technical sheet printing

Le Grass Encyclopédie

The Grass Encyclopedia

# TECHNICAL SHEET

Date : 11/07/2001 Page : 1

DESIGNATION : Cajeput Essential Oil

| | |
|---|---|
| Reference | XYZZ |
| Aspect | Mobile liquid |
| Colour | Green to yellow green-coloured |
| Flavour | Characteristic |
| Description | |

ANALYTICAL CARACTERISTICS

| | |
|---|---|
| Density d 20/20° | 0.909 - 0.921 |
| Refractive index nD/20° | 1.464 - 1.472 |
| Flash point | 48°C |
| Rotatory power alpha D/20° | -4 +1.3 |

REGULATIVE / GENERAL INFORMATIONS

BOTANICAL NAME Melaleuca leucadendron L.

| | |
|---|---|
| CAS N° | 85480-37-1 (8008-98-8) |
| EINECS/ELINGS N° | 287-316-4 |
| CE N° | 276n |
| FEMA N° | 2225 |
| FDA N° | 172.510 |

STORAGE CONDITION

To preserve at fresh temperature (max 18°C), under nitrogen, safe from the air and the light.

# End of the User manual

***Version 1.0c of August, 25, 2002***

**Design and production Jfr@Dev,**

**le 18 septembre 2002**